

Valent BioSciences

VectoBac[®] CG

Biological Larvicide

Material Safety Data Sheet

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Issue Date:	02/09/01
List/Code:	5094/15571
DOT Classification:	Not Regulated
EPA Registration No.:	73049-19
Emergency Overview:	This material may be an eye irritant.
NFPA:	Health - 0; Fire - 1; Reactivity - 0

COMPOSITION / INGREDIENTS

Ingredient Name:	<i>Bacillus thuringiensis</i> , subsp. <i>israelensis</i> *	Inert Ingredients*
% Concentration:	0.2%	99.8%
CAS/RTECS Numbers:	N/A / N/A	N/A / N/A
OSHA-PEL 8HR TWA:	N/L	15 mg/m ³ total dust, 5 mg/m ³ respirable fraction a minor component
STEL:	N/L	N/L
Ceiling:	N/L	N/L
ACGIH-TLV 8HR TWA:	N/L	10mg/m ³ for a minor component
STEL:	N/L	N/L
Ceiling:	N/L	N/L
OTHER 8HR TWA:	N/A	N/A
LIMITS STEL:	N/A	N/A
Ceiling:	N/A	N/A

* Identity withheld as a Trade Secret

HEALTH CONSIDERATIONS

Route(s) of Entry:	Skin: No Inhalation: N/D Ingestion: No
Carcinogenicity Rating:	NTP: N/L IARC: N/L OSHA: N/L ACGIH: N/L None
Signs and Symptoms:	N/D. Direct contact with eyes or skin may cause mild irritation.
Medical Conditions Aggravated by Exposure:	N/D. Data suggest pre-existing skin or eye lesions.
Oral Toxicity:	N/D. LD50 > 2,670 mg/kg in rats for another formulation of the active ingredient.
Dermal Toxicity:	N/D. LD50 > 6,280 mg/kg in rabbits for another formulation of the active ingredient.
Inhalation Toxicity:	N/D
Corrosiveness:	N/D
Dermal Irritation:	N/D. Mild irritation was noted in a dermal toxicity study in rabbits with another formulation of the active ingredient.
Ocular Irritation:	N/D. VectoBac Technical Powder was mildly irritating in an eye irritation test in rabbits.
Dermal Sensitization:	N/D
Target Organs:	N/D
Special Target Organ Effects:	N/D
Carcinogenicity Information:	N/D

EMERGENCY AND FIRST AID PROCEDURE

Eyes/Skin: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

Ingestion/

Inhalation: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

FIRE FIGHTING PROCEDURES

Flash Point:	N/A
Lower Explosive Limit (%):	N/D
Upper Explosive Limit (%):	N/D
Autoignition Temperature:	N/D
Fire and Explosive Hazards:	N/D
Extinguishing Media:	Use appropriate medium for underlying cause of fire.
Fire Fighting Instructions:	Wear protective clothing and self-contained breathing apparatus.

SAFE HANDLING, USE, STORAGE, and DISPOSAL

Handling:	N/D
Storage:	Store in a cool, dry place.
Special Precautions:	N/A
Spill or Release Procedures:	Recover product, place into appropriate container for disposal. Avoid dust. Ventilate and wash spill area.
Disposal:	Dispose of product in accordance with federal, state, and local regulations.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Granular solid.
Odor:	N/D
Boiling Point:	N/A
Melting/Freezing Point:	N/A
Vapor Pressure (mm Hg):	N/A
Vapor Density (Air=1):	N/A
Evaporation Rate:	N/D
Bulk Density:	N/A
Specific Gravity:	N/D
Solubility:	N/A
pH:	N/A
Viscosity:	N/A
Reactivity:	Alkalinity inactivates product.

LEGEND

N/A = Not Applicable

L = Listed

ltr = liter

N/D = Not Determined

S = Short Term

N/L = Not Listed

C = Ceiling

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